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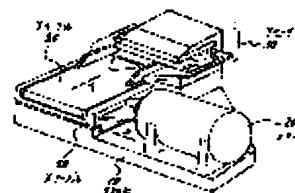
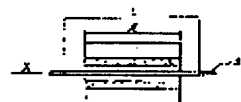
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## (54) XY TRANSFER STAGE

## (57)Abstract:

**PURPOSE:** To obtain highly mechanical rigidity and excellent controllability by directly driving a Y table without using a joint by a linear motor constituted by a flatly wound coil and a magnetic circuit that forms a magnetic filed perpendicular to the XY plane and opposed to each other.

**CONSTITUTION:** When a X table 40 is driven by a X motor 20, a coil 33 also moves in the arrow X direction together with the X table 40. However, since the difference between the internal diameter L of the coil in the X direction and length l of magnetic circuits 31, 33 is set larger than the amount of transfer of the X table 40, the performance of a Y motor 30 as a motor does not change. Also, since the winding direction of a coil in the magnetic filed formed by magnetic circuits 31, 32 and the X direction are parallel, the linear motor 30 does not receive resistance or thrust to the movement in the X direction. This makes it possible to enhance mechanical rigidity and improve controllability.



## LEGAL STATUS

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